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(54) Title: WHEAT PLANTS HAVING INCREASED RESISTANCE TO IMIDAZOLINONE HERBICIDES

(57) Abstract: The present invention is directed to plants having increased resistance to an imidazolinone herbicide. More partitularly, the present invention includes wheat plants and triticale plants containing at least one IMI nucleic acid such as an imidazolinone resistant Brookton BR-8 or Krichauff K-42 cultivar. The present invention also includes seeds produced by these wheat plants and triticale plants and methods of controlling weeds in the vicinity of these wheat plants.

INTERNATIONAL SEARCH REPORT

International application No.

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A. (CLASSIFICATION OF SUBJECT MATTER							
Int. Cl. 7:	A01H 5/00 A01H 5/10 C12N 15/60 C12N 9	/88						
According to I	nternational Patent Classification (IPC) or to both na	tional classification and IPC	<u> </u>					
в. І	FIELDS SEARCHED							
Minimum documentation searched (classification system followed by classification symbols)								
See Electroni	c Database searched other than minimum documentation to the extent	that such documents are included in the fields search	ned					
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WPIDS; CA;	pase consulted during the international search (name of da MEDLINE; BIOSIS; AGRICOLA; DGENE; A eran?, susceptib?	ta base and, where practicable, search terms used) NGIS: triticum, aestivum, wheat, triticale,	imidazol?,					
C. 1	DOCUMENTS CONSIDERED TO BE RELEVANT	·						
Category*	Citation of document, with indication, where appro	Relevant to claim No.						
х	Newhouse et al. (1992) "Tolerance to Imidaze Plant Physiol. Vol 100: 882-886 (see the whole document)	1-7, 11-14, 32, 36-41, 47, 51, 53-55						
x .	1-7, 11-14, 32, 36-41, 47, 51, 53-55							
X F	urther documents are listed in the continuation	of Box C X See patent family ann	ex					
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step								
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	nal completion of the international search	Date of mailing of the international search report	1 2 MAY 2004					
5 May 2004								
	ing address of the ISA/AU	Authorized officer .						
PO BOX 200, E-mail address:	PATENT OFFICE WODEN ACT 2606, AUSTRALIA pet@ipaustralia.gov.au (02) 6285 3929	TERRY MOORE Telephone No: (02) 6283 2632						



C (Continua	tion). DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
х	GenBank Database Accession BF200418 6 November 2000 Anderson O. et al. "The structure and function of the expressed portion of the wheat genomes-Vegetative apex cDNA library from Triticum monococcum"	42-46
. X	GenBank Database Accession BE417248 24 July 2000 Anderson O. et al. "International Triticeae EST Cooperative (ITEC): Production of expressed sequence tags for species of the triticeae"	42-46
P, X	WO 2003/014356 A1 (UNIVERSITY of SASKATCHEWAN) 20 February 2003 (see the whole document)	1-14, 19-56
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This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

	t Document Cited in Search Report			Pate	nt Family Member		
EP	0508161	AU	14710/92	CA	2065189	CN	1065573
		CS	9201052	EP	0965265	FI	921528
		HU	62137	1E	921101	ĴР	5219848
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		ZA	9202511			•	
wo	03014356	CA	2456311	EP	1414976		
wo.	03014357	CA	2456314	EP	1414975		·
wo	03013225			· · · · · ·			

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END OF ANNEX